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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/647,108	01/22/2001	Aloys Huttermann	3395 4PUS	4089	
7:	590 08/29/2002				
Thomas C Pontani			EXAMINER		
Cohen Pontani Suite 1210	Lieberman & Pavane		KUHAR, ANTHONY J		
551 Fifth Avenue New York, NY 10176			ART UNIT	PAPER NUMBER	
, , , , , , , , , , , , , , , , , , , ,			1754	a	
			DATE MAILED: 08/29/2002	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

CZ

	Application No.	Applicant(s)	
	09/647,108	HUTTERMANN ET AL.	
Office Action Summary	Examiner		
	Anthony J Kuhar	1754	
The MAILING DATE of this communicate Period for Reply		ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA* - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica* - If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutor - Failure to reply within the set or extended period for reply will, to any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	FION. CFR 1.136(a). In no event, however, may a lition. ys, a reply within the statutory minimum of thin y period will apply and will expire SIX (6) MON by statute, cause the application to become Months.	reply be timely filed ty (30) days will be considered timely. THS from the mailing date of this communication.	
1) Responsive to communication(s) filed of	on		
	This action is non-final.		
3) Since this application is in condition for		tters prosecution as to the merits is	
closed in accordance with the practice Disposition of Claims	under <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.	
4) \boxtimes Claim(s) <u>1-20</u> is/are pending in the appl	ication.		
4a) Of the above claim(s) <u>1 and 12</u> is/are	withdrawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) 2-11 and 13-20 is/are rejected.		•	
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction	and/or election requirement.		
Application Papers			
9) The specification is objected to by the Ex			
10) The drawing(s) filed on is/are: a)	accepted or b) objected to by the	he Examiner.	
Applicant may not request that any objectio	n to the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).	
11) The proposed drawing correction filed on		isapproved by the Examiner.	
If approved, corrected drawings are require			
12) The oath or declaration is objected to by t	ne Examiner.		
riority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for t	oreign priority under 35 U.S.C. §	} 119(a)-(d) or (f).	
a) ☑ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority docu			
2. Certified copies of the priority docu			
Copies of the certified copies of the application from the Internation See the attached detailed Office action for	ial Bureau (PCT Rule 17.2(a))		

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

Attachment(s)

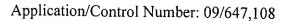
6) Other:

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

4) Interview Summary (PTO-413) Paper No(s).

5) Notice of Informal Patent Application (PTO-152)



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DETAILED ACTION

Examiner acknowledges cancellation of claims 1 and 12. Claims 12-19 have been renumbered claims 13-20 per Rule 126.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2-11 and 13-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 2-11 are indefinite because they depend on a claim which has been cancelled. It appears the base claim is claim 13.

In claim 5, "by using ... acids" is indefinite as to how they are used, i.e. are they used for barter or for sale for the required monocarboxylic acids?

In claim 6, "by using ... groups" is indefinite as above.

In claim 7, "by using ... agents" is indefinite as above.

In claim 8, "increased temperature" is indefinite because it is not clear what the temperature is increased from, nor what is considered to be an increased temperature.

In claims 9 and 18, the phrase "the acidic monomer components" lack proper antecedent basis in the claims.

In claims 10, 19, and 20, it is not clear what each of the grams refer to in "g/g."

In claim 11, "the acid soil" lacks proper antecedent basis in the claims.

In claim 13, "polymethylacrylates" is misspelled.



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In claim 16, "using methylenebisacylamide" is indefinite as above.

Also, "methylenebisacylamide" is misspelled.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 2-11 and 13-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vyshkina '965 in view of EP 0072214 and further in view of EP 0072213.

Vyshkina '965 teaches a process for removing heavy metals, particularly chromium, from soils with an anionic flocculant. Column 5, lines 13-15 show that at a chromium concentration of up to 100 ppm, a single wash with a solution of anionic synthetic organic flocculant is sufficient to decontaminate the soil. Example 1 discloses the use of high molecular weight polyacrylamide as the anionic flocculant. EP 0072213 teaches polyacrylamide as a polyacrylate (see page 6, line 5). Vyshkina '965 does not disclose that the polyacrylamide is crosslinked, nor the process for making the polyacrylamide used in the invention.

However, EP 0072214 teaches a process for making crosslinked polyacrylamide starting on page 2, line 23. A copolymer of acrylamide and acrylic acid salt is crosslinked. It is disclosed that substituted acrylic acid salts such as methacrylates can also be used (see page 2, lines 32-33). Crosslinking agents are similar to those disclosed in the instant claims (see page 4, lines 9-10). Heating during polymerization is taught from 90 to 150 °C (see page 4, lines 28-29). Page 3, lines 9-11 disclose the product of invention is capable of absorbing often 25 and possibly more than 100 times their own weight in water. Ranges of 0.01% to 2% crosslinking agent by total weight of the monomers are disclosed on page 4, lines 1-5. EP 0072214 also teaches partly neutralizing a monomer by an alkali before polymerization, e.g. at 90% (see page 5, lines 17-20). On page 8, lines 1-7, the polyacrylamide may be added as low as 0.5%-1% by weight of soil to see good results, whereas a few percent are generally required, but not more than 4%.

At the time the invention was made, one of ordinary skill in the art would have recognized that polyacrylamide as taught by Vyshkina '965 is useful in decontaminating soils

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with heavy metals and further prepare their own polyacrylamide using the methods taught by EP 0072214 because Vyshkina teaches polyacrylamide removes heavy metals from soils, and EP 0072214 teaches a superior polyacrylamide in terms of water retention and desirable level of water soluble materials (see page 16, lines 13-25). Thus one of ordinary skill in the art would have been motivated to use the polyacrylamide of EP 0072214 for the purposes taught by Vyshkina because the polyacrylamide of EP 0072214 has the superior properties mentioned above; thus one of ordinary skill in the art would conclude that it would also have a superior ability to decontaminate soils.

Furthermore, it is not necessary in order to establish a prima facie case of obviousness that the prior art show both a similar structure between a claimed compound and that of the prior art and also that the claimed compound will have the same utility as that discovered by the applicant. Burden falls on the applicant to show that the claimed composition possesses unexpectedly improved properties that were lacking in the prior art. See In re Dillon 16 USPQ 2d 1897, page 1901.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony J Kuhar whose telephone number is 703-305-7095. The examiner can normally be reached on 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stan Silverman can be reached on 703-308-3837. The fax phone numbers for the

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organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-305-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

ΑK

August 21, 2002

STEVEN BOS PRIMARY EXAMINER GROUP 1100